

## NPDES permit protects our communities

The Y-12 National Security Complex has been granted a new National Pollutant Discharge Elimination System—NPDES—permit from the Tennessee Department of Environment and Conservation. The new permit is effective May 1 and expires December 2008.

Receiving this permit, one of the most complex in Tennessee and the country, helps protect us, our communities and our natural resources.

"The team did an excellent job in fully characterizing our water flows through sampling and data presentation, and through this process, built trust with the regulators," Lenny Vaughan, manager of Clean Water Compliance, said.

Companies that discharge directly from point sources into state surface waters must obtain an NPDES permit. Y-12 discharges into East Fork Poplar Creek, McCoy Branch, Bear Creek and tributaries to the Clinch River.

"The last NPDES permit for Y-12 was issued in 1995. Permits are negotiated with TDEC. Once TDEC approved the [new] permit, the permit had to be approved by the Environmental Protection Agency," said Owen Stevens, manager of Environmental Compliance.

The Clean Water Act is the cornerstone of surface water quality protection in America and employs a variety of regulatory and nonregulatory tools. These tools are used to achieve the broader goal of restoring and maintaining the chemical, physical and biological integrity of the nation's



### Project team members

Gary Beck	Cathy McCoy
Steve Field	Mark Shedden
Tony Gross	Owen Stevens
Kim Hanzelka	Lenny Vaughan
Russ Harden	Mick Wiest



The new NPDES permit will help Y-12 protect the many creeks included on its landscape for years to come.

waters so they can support and protect fish, wildlife and water recreation.

The CWA makes it illegal to discharge pollutants from a point source to any U.S. body of water without a permit. The NPDES permit sets limits on the amount of pollutants that a source can discharge in a given time.

Y-12 employees, subcontractors, federal employees and others working on site are responsible for complying with all applicable rules, regulations and permit requirements tied to the NPDES.

Y-12's new NPDES permit requires monitoring 56 outfalls that are considered point sources and five in-stream points. Analyses of chemical, radiological and biological parameters are required to be conducted at each site.

In addition, Y-12 must maintain a Stormwater Pollution Prevention Plan for monitoring run-off generated during storm events. Data are provided to TDEC monthly in a discharge monitoring report. Our environmental group at Y-12 has maintained an excellent compliance record.

"The NPDES permit will enhance Y-12's ability to meet regulatory limits, reduce analytical testing no longer relevant and allow Y-12 to effectively monitor and control processes to protect the environment," Stevens concluded.

For the most part, the new permit will not impose new or more stringent requirements. If your operations are impacted, members of Environmental Compliance will contact you.

If you have any questions about this permit, contact Vaughan (vau; 576-8108) or Stevens (1os; 576-9657).

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## Have you met the new managers?



Debbie Shecterle

Dennis Grove

Rob Gifford

Recently, three new managers joined BWXT Y-12 to replace personnel who have moved to other assignments.

Debbie Shecterle is the manager of Human Resources whose previous position was with Doane Pet Care, an international company with more than 3,000 employees. Shecterle replaced Steve Smith who is now the manager of the Y-12 training organization.

Shecterle said she's proud to be part of the Y-12 team. "There's a sense of pride, commitment and loyalty in the people here. You just don't find that anymore," she said.

Dennis Grove joined Y-12 to fill Asa Kelley's spot as manager of Projects. Kelley moved on to similar duties at Los Alamos National Laboratory.

Grove came to Y-12 from the Savannah River Site and is a 31-year employee of Bechtel. He is excited about what he sees happening at Y-12. "Y-12 has the best representation of modernization that I've seen in the weapons complex," Grove said. "It's fantastic to see demolition and construction wherever you look."

The newest manager is Chief Financial Officer Rob Gifford who is no stranger to Y-12 or BWX Technologies. Gifford previously worked at Y-12 as a department manager within the Planning and Integration division. Gifford replaced Glenn Kizer who also joined Los Alamos National Laboratory.

Gifford is excited about drawing on former experience to help improve the planning, budgeting, resource allocation and financial reporting system at Y-12.

Let's welcome these new leaders to Y-12.

## The box is in business

Four years of dedicated preparation efforts to design, fabricate, construct and ready a new glovebox finally paid off. Designed by Merrick Engineering and built at Carlisle Life Sciences in Wisconsin, the new disassembly glovebox successfully began dismantlement of its first unit the day after receipt of the National Nuclear Security Administration authorization letter.

The readiness preparations were extremely rigorous. Though he has participated in several readiness assessments, assemblyperson David Miller said, "The detail to which we were trained was on an entirely different level. Our knowledge of the glovebox, its support systems and how they interact is far beyond what we generally learn." Miller added, "I would like to thank the Quality Evaluation assemblypersons for their tremendous cooperation. They taught us how to work in a glovebox."

Recollecting the crew's excellent performance on this project, Jim Hackworth, production support manager, mentioned the unusual degree of mutual support and teamwork shown not only among assemblypersons but also among engineers and readiness specialists. Hackworth said, "The crew consulted the engineers and subject matter experts as needed, and the engineers and SMEs consulted the crew throughout the effort whenever they needed to," showing mutual respect for expertise.

## Way to go team!

### Disassembly glovebox team:

- Frank McHenry, project manager
- Greg Williams, readiness team leader
- Janet Pyle, documentation specialist
- Jeff Pipes, Michael Letsinger and Woody Hillyard, systems engineers
- Elliott Barnett and Glenn Bridges, process engineers
- Jim Hackworth, production support manager
- Mike McCullough, assisted Hackworth during the process of bringing the glovebox to first use
- Doyle Clark, David Miller, backup supervisor Tim Neal, Wayne Patrick, Randy Wright, Neta Wilcox and primary supervisor Roy Wilkerson, crew of assemblypersons



Back row, left to right: Letsinger, Pipes, Clark, Wilkerson, Hackworth, Hillyard, McHenry, Pyle and McCullough  
Front row, left to right: Patrick, Miller, Wright, Wilcox, Bridges and Williams



The Little Boy bomb was dropped on Hiroshima, Japan, Aug. 6, 1945, and was a relatively simple enriched uranium weapon.

## Bomb's shelters

The National Park Service will stage two public meetings in April as part of a three-year study of Manhattan Project sites and their historical significance. The study, which was directed by Congress in late 2004, could lead to recommendations on preserving these early nuclear sites—at Oak Ridge and three other locations—and possibly including one or more of them in the national park system.

Oak Ridge has three signature facilities associated with the World War II project that developed the first atomic bombs:

- Graphite Reactor, which produced the first significant quantities of plutonium.
- K-25 uranium-enrichment building, which at the time was the world's largest building.
- Beta-3 "racetrack" at the Y-12 plant, which enriched the uranium used in the Little Boy bomb that was detonated at Hiroshima, Japan.

Carla McConnell, the National Park Service's project manager, said in a newsletter that the study would develop a range of alternatives to ensure the long-term preservation and "public appreciation" of these old sites.

—Condensed from *The Knoxville News-Sentinel*, March 23, 2006

## Y-12 quarterly contributions

BWXT Y-12 strives to give back to local communities through the Corporate Contributions Program and the volunteer participation of employees in civic, health and human service, educational and cultural organizations.

The Y-12 Contributions Committee meets quarterly to review requests for contributions. The committee met recently to review 20 requests from area organizations. Twelve requests were approved for corporate contributions.

## Community beneficiaries

\$2,000	Roane County High School Science Department
\$1,000	East Tennessee Public Television
\$1,000	Recording for the Blind and Dyslexic in Oak Ridge
\$1,000	Roane Imagination Library/Mid-East Community Action Agency's program
\$1,000	Rotary Club of Oak Ridge
\$1,000	Scarboro Community Environmental Justice Council Inc.
\$750	Suburbia Chapter of the General Federation of Women's Clubs
\$500	Big Brothers Big Sisters of Tennessee Valley
\$500	Oak Ridge High School Graduation Celebration Community Foundation
\$250	Fraternal Order of Police, Lodge No. 2
\$150	National Fire Safety Council Inc. on behalf of the Kingston Fire Department
\$125	<i>The Oak Ridger</i>

Requests not selected this quarter will be reconsidered as part of the review of new requests at the next quarterly meeting in June. If you have questions about the program, contact Pat Carson (pyt; 241-8356) or Mike Monnett (mkn; 241-5872).

## Danger on the roads

According to the National Highway Transportation Safety Administration's National Center for Statistics and Analysis, use of cell phones by drivers increased during 2005 by 1 percent.

What does that mean in terms of how many people are actually yakking while driving? That percentage translates into 974,000 vehicles on the road during

any given daylight moment being driven by someone who is on the phone. (That figure includes hand-held and hands-free.)

The study also estimated that 0.2 percent of drivers were dialing, checking personal data assistants or otherwise manipulating some type of hand-held device while driving.

## Speaking of cell phones ...

- Remember that cellular phones must be powered off at all times while within the Blue Line (229 boundary) of Y-12.
- Cell phones must be stored in your vehicle within Y-12 parking areas.
- Take the extra time to ensure your cell phone is powered off and stored before exiting your vehicle.
- Cell phones will set off metal detectors.



Whether taking it upon themselves to be good environmental stewards or participating in Y-12-sponsored cleanup and restoration activities, Y-12 employees are making a difference and doing their part to protect our natural resources.

### **Volunteer Chapter of Quail Unlimited**

About 30 current and retired Y-12 employees work with the nonprofit conservation organization to help manage America's wild quail and other forms of wildlife.

Steve McGhee of Engineering co-founded the Volunteer Chapter in 1986 and remains an active member.

The chapter plants about 20,000 pounds of seed yearly and works with the Tennessee Wildlife Resources Agency to do fescue conversion work on the U.S. Department of Energy Oak Ridge Reservation.

### **Volunteers in Parks**

Several times a year, Y-12 Volunteers in Parks—or VIPs—roll up their sleeves, put on their gloves and set to work upgrading the Great Smoky Mountains National Park's numerous picnic sites and walkways.

"I hope the picnic area refurbishments and expansion of sites to make them Americans with Disabilities Act-accessible bring the park's enjoyment to as many people as possible," said VIP George Dailey of Contracts and Special Initiatives.

Dick Love, a Quality Assurance VIP, is "proud to be a part of a team that really works hard to make a difference in people's lives."

"Our work is uniquely important to the park because of the talents and capabilities of Y-12 employees," explained Bob Hawthorne of Facilities, Infrastructure and Services and coordinator of the Y-12 VIP program.

In 2005, the director of the National Park Service recognized the group's long-term efforts with the presidential-level Take Pride in America award.

### **Things you can do:**

- Clean up rivers, lakes, streams, trails and streets around your community.
- Plant trees and flowers native to your community.
- Turn off the lights when you leave a room.
- Recycle household hazardous wastes.
- Keep old computers from the landfills by donating them to schools, charities, etc.
- Sit down under a tree with your kids and talk about the good things trees provide us (paper, wood for construction, oxygen, shade, etc.)

Earth Day is an event that can take actions to prepare for the challenges of the 21st century. It's a day—not only on a designated day but every day—when we can take actions to prepare for the challenges of the 21st century.

You may have noticed that many vehicles are now designated as E85 vehicles, meaning they can run on gasoline or ethanol. In addition to gasoline, they can also run on ethanol.

Some vehicles can also run on biodiesel—a fuel made from vegetable oils or recycled cooking oil.

Biodiesel is a renewable fuel that can be used in diesel engines.

B10 are a few blends of biodiesel. The numeral indicates the percentage of biodiesel in the blend. For example, B10 is a blend of 10 percent biodiesel and 90 percent gasoline.

Y-12 is one of many interested parties in alternative fuels. Musicians like Willie Nelson and Bonnie Raitt are sponsors of alternative fuels. Raitt hosted a benefit in Knoxville to aid the East Tennessee Electric Cooperative and the Tennessee Soybean Promotion Board.

Raitt, who uses B20 in her tour buses, said, "Biodiesel is a great fuel. We can all benefit from more biodiesel use."

If you plan to buy a new vehicle this year, check out the unique fuel also has a superior lubricity that can reduce wear on your engine. Buying a vehicle that uses alternative fuels also supports additional markets for their crops.

## **A few good neighbors**

Y-12 employees do the work of many organizations, reusing products and services you can make to your life.



"I get a lot of satisfaction and pride in the preservation work I do with Quail Unlimited—I've done something that will live beyond my lifetime."

Steve McGhee  
Engineering



"I have been a member of the Appalachian Trail Conservancy for 6 years. We have been in care of a two-mile section of the trail near Clingman's Dome. We have been cleaning water, clearing brush and more. Since 1999, I've worked on Earth Day, a concerted effort to clean up debris left by hiking camps."

Lynda Bryan  
Manufacturing



ent we should celebrate every  
designated day in April. We all  
eserve our environment for gen-

ced some of Y-12's vehicles are  
cles—meaning they use a blend  
percent ethanol and 15 percent  
E85, Y-12 is converting 76 die-  
form of fuel created from blend-  
grease with diesel. B2, B5 and  
icates the percentage of "bio"  
dio with 90 percent diesel.  
ive fuels to aid the environment.  
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st Tennessee Clean Fuels Coali-

esel has come so far in the last  
ut alternative fuel models. This  
e wear and tear on the engine.  
rts U.S. farmers by providing ad-

For the last 10 years, employees have volunteered more than 10,000 cumulative hours at the Great Smoky Mountains National Park, upgrading the park's numerous picnic sites with new pads, tables and grills and creating handicap-accessible campsites. Their work also has involved construction of steps and walkways to contain visitors' foot traffic and prevent erosion and destruction of vegetation.



ir part to enrich our environment whether it be by working with outside  
lastic bags or recycling aluminum beverage cans. Think about the changes  
lifestyle to help preserve our natural resources.



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cy for 5 years and  
ountains Hiking Club  
a crew who takes  
ction of the AT near  
e make 4 to 6 trips  
bars, installing steps,  
maintaining the trail.  
ed National Trails  
rt to rid the AT of  
ubs."



"There is a direct link between our primary mission at Y-12 and environmental stewardship. We safeguard our nation's security so we can protect what is great about our country. A healthy environment is a critical part of our legacy to future generations."

Astrid Brynestad  
Information and Materials



"I try to recycle everything, and I encourage my co-workers to do the same. They call me 'Recycle Queen.' I feel very strongly about reuse and recycling. I just like to keep things out of the landfills. Remember: 'One man's junk is another man's treasure.'"

Barbara Crump  
Information and Materials



"I am considered a little extreme in my concern and actions for the environment, but it is a reflection of what I perceive as my responsibility to God as a steward of our earth. One of the biggest environment activities I do is to reuse paper. I print on used paper all the time and probably don't use more than a ream of 'clean' paper a year. Saves money, landfills and natural resources."

Dale Hensley  
Financial Management

# Y-12's 'family album' preserves past for future

Putting together a family scrapbook is more than a collection of photos and journal entries; it's a way of preserving shared memories, traditions and histories. Y-12 is putting together its own family album of sorts through the National Historic Preservation Act Program Office.

"Just about anywhere you look at Y-12, there are items relating to the Manhattan Project that have historic significance," said National Historic Preservation Act coordinator Jennifer Dixon. "I think we sometimes take that for granted because we see it every day. You really have to step back and look at it from a historic perspective."

Dixon said Y-12's preservation efforts include taking oral histories from current and former employees, salvaging artifacts from soon-to-be-demolished buildings and videotaping the historic "look and feel" of the site. Last year's public tours of the Beta-3 calutrons produced a number of unsolicited oral histories when many members of the tour



Manhattan Project workers received the "A-Bomb" lapel pin at the end of World War II. This artifact is one of many the NHPA Program Office hopes to collect for display.

party began to reminisce about their duties at Y-12 in the 1940s.

Dixon urges all Y-12 employees to be on the lookout for any potential artifacts, including tools, equipment, books, brochures, photos, maps, signs, furniture and posters. If you would like to see some of the artifacts she has collected and learn more about Y-12's history, visit one of the Interpretive Centers in Buildings 9201-3, 9113 or 9119 or the History Library in Building 9733-5.

The National Historic Preservation Act, created in 1966, is the nation's largest piece of legislation regarding historic preservation. All federal agencies (including the U.S. De-

partment of Energy and the National Nuclear Security Administration) are responsible for adhering to the act's mandates, which include identifying, collecting and preserving items that provide insight into a historic site's past.

If you know of items or histories that should be preserved, contact Dixon (jen; 576-5715).

## Have an environmental question? Contact your EO

You may have seen the YSource articles featuring Y-12's environmental officers. EOs are appointed by organization managers, communicate federal- and state-mandated environmental regulatory requirements and promote the Environmental Management System as a tool to achieve environmental excellence at Y-12.

EOs have numerous responsibilities:

- Coordinate efforts to seek, accomplish and maintain environmental regulatory compliance and promote EMS activities in their areas.
- Identify (within the Automated Job Hazard Analysis process) organization-specific environmental aspects and impacts.
- Attend EO monthly meetings and disseminate information and guidelines for environmental regulatory compliance.

For more information about the EO program, visit the EO website or contact Ivy Lalonde (ilm; 574-1547) or your organization's EO (see listing at right).

**Analytical Chemistry:** Suzanne Worthy  
**Assembly/Quality Evaluation Production:** Denise Hess  
**Chemical Processing Production:** Scott Abston, Chuck Fritts and D. E. Voiles  
**Contracts and Special Initiatives:** Doug Colclasure  
**Depleted Uranium Production:** Mike Aloï  
**East End Zone:** Ed Ingram  
**Emergency Services:** Robert Winkle  
**Engineering:** Brandon Lemarr  
**Enriched Uranium Metalworking Production:** Perry Anthony  
**Enriched Uranium Special Processing Production:** Dave Daniels  
**Environment, Safety and Health:** Don Bohrman  
**Facilities, Infrastructure and Services:** Al McLendon  
**General Manufacturing Production:** Stacy Jollay  
**Human Resources:** Mary Wilson  
**Information and Materials:** Lyle Bennett  
**Infrastructure Reduction:** Arlin Yeager  
**Material Management:** Emmett Wade  
**Oak Ridge Metrology Center:** James E. Preston  
**Product Certification:** David Freels, Gary Hackworth and Kilsun Hickey  
**Projects:** Joe Matlock  
**Public Affairs and Communications:** Chuck Strayer  
**Radiological Control:** Kim Nugent  
**Safeguards and Security:** Frances Parrett  
**Special Materials Production:** Gloria Shell  
**Technology Development:** Doug Roberts  
**Waste Operations:** Mary Wiginton and Arlin Yeager



## MARCH

### 46 years

**Financial Management:** William R. Ragland

### 40 years

**Facilities, Infrastructure and Services:** George V. McPeters Jr.

### 35 years

**Facilities, Infrastructure and Services:** Jackie L. Campbell

**Financial Management:** Eunice M. Hobbs

**Human Resources:** Dennis E. Ball

**Manufacturing:** Leonard D. Ellison, Ronald R. Taylor and James R. Ward

**National Security Programs:** Roger D. Keck

**Planning and Integration:** Edward J. Nageotte

### 30 years

**Engineering:** Steven E. McGhee

**Facilities, Infrastructure and Services:** Linda B. Bayless, Jimmie L. Elliott, Howard R. Gilliam and Aaron D. Tallent Jr.

**Information and Materials:** Beverly R. Martin and Danny W. Whitson

**Legal:** Kemla W. Branum

**Manufacturing:** Gary S. Diggs, Clifredia C. Eskridge, Boyd L. Fain, Homer J. Foster Jr., Ruth C. Kear, Herbert W. Patrick and Margaret A. Wilson

**National Security Programs:** Michael D. Shepherd

**Planning and Integration:** Thomas N. Walker

**Quality Assurance:** Alan C. Beddingfield, Charles R. Horton and Floyd M. Mack



**Safeguards and Security:** Larry E. Alcorn and Ronald G. Spitzer

### 25 years

**Applied Technologies:** George M. Lamance

**Engineering:** Herbert G. Cunningham, Albert M. Lokey, Donald J. Merkel and David G. Walton

**Facilities, Infrastructure and Services:** James Y. McNabb Jr. and Curtis H. White

**Manufacturing:** General P. Harper, Gwendolyn Patterson and Don B. Skeens

**Quality Assurance:** William F. Wrinkle Jr.

### 20 years

**Contracts and Special Initiatives:**

James D. McClanahan

**National Security Programs:** Thomas O. Tallant

## APRIL

### 40 years

**Planning and Integration:** Dan L. Harvey

### 35 years

**Facilities, Infrastructure and Services:** Rufus Bowen Jr.

**Quality Assurance:** Sherrill L. Cook

**Safeguards and Security:** Stanley R. Burney

### 30 years

**Applied Technologies:** Nancy J. Galyon

**Campaigns:** Candice G. Fraker

**Engineering:** Mark H. Albert and Ronald J. Roddy

**Facilities, Infrastructure and Services:** Gary S. Foster, Carol R. Glover, George M. May, Linda D. Nelson, James D. Willocks and Ricky D. Young

**Information and Materials:** Marvin O. Dixon

**Manufacturing:** Warren S. Bowman, Frank H. Carey, David W. Jackson, Terry L. Phillips and Rickey E. Shipley

**Quality Assurance:** Samuel M. Steelman

**Safeguards and Security:** Steven A. Buffalo

### 25 years

**Contracts and Special Initiatives:** John R. Harris

**Environment, Safety and Health:** Jennifer L. Dixon

**Facilities, Infrastructure and Services:** Tony L. Catlett and Allen J. Moyers

**National Security Programs:** Walter C. Corey

### 20 years

**Facilities, Infrastructure and Services:** Lana D. Golden

**Financial Management:** Kristi R. Everett and Susan T. Lane

**Manufacturing:** Charles A. Tindell

## ANNIVERSARY OMISSION

Johnny Stegall of Manufacturing celebrated 35 years with the company in January. We apologize for omitting this anniversary.

## Know the signs

According to the American Heart Association and the American Stroke Association, stroke risk factors are traits and lifestyle habits that increase the risk of disease. Studies have verified that most of the risk factors for strokes can

be modified, treated or controlled. Some of the most important things to know are the warning signs of a stroke. They are:

- Sudden weakness or numbness of the arm, leg or face—especially when it occurs on one side of the body.
- Sudden confusion or trouble understanding or speaking.

- Problems with vision.
- Sudden trouble walking, dizziness, loss of balance or coordination.
- Sudden, severe headache without a known cause.

If you, or someone you know is experiencing symptoms, call 911 immediately. Lost time can be devastating in treatment.

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# Material handlers tackle safety problem

"That's an accident waiting to happen." How many times have you made that statement when you have noticed something unsafe? One group of material handlers said the same thing and decided to do something about a potentially dangerous situation.

The safest way for material handlers to exchange 60-foot-long empty cylinders is to use a forklift, but that means having to maneuver the vehicle along a narrow passageway between the stored cylinders.

The problems facing the group were washed-away pavement on the passageway and drainage that was almost nonexistent, causing the forklift to slide off the pavement.

Material handler Arnold Hawkins discussed this safety concern during a behavior-based safety training class. Following the class, an at-risk behavior was identified; an observation was made; and the findings were turned in to the material handlers' steering committee. Eric Tackett, a material clerk and member of the Teamster steering committee, followed up on the finding.

Within two months, the area was repaved and the drainage issue was resolved. Although still a tight squeeze, the material handlers are back on the forklifts safely maneuvering the cylinders.

This at-risk behavior was improved because of the BBS Barrier Removal Team and the dedicated work of Local 519 Teamster Steering Committee (material handlers) led by Condyl Sharp and Dot Graham. The material handlers re-energized their efforts in



Arnold Hawkins safely maneuvers through a narrow passageway as Kenny Walls, left, and Ronnie Fairchild observe to ensure the newly repaved area provides a safe working surface.

the BBS process and have been leading the way for all Atomic Trades and Labor Council locals. Jim Hamby, chief steward, has been the leader and catalyst supporting the process, ensuring that the material handlers have the encouragement (leadership), resources and time to do the observations.

Applying BBS to any process is a safe, effective way to ensure you never have to wait for an accident to happen.

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